

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



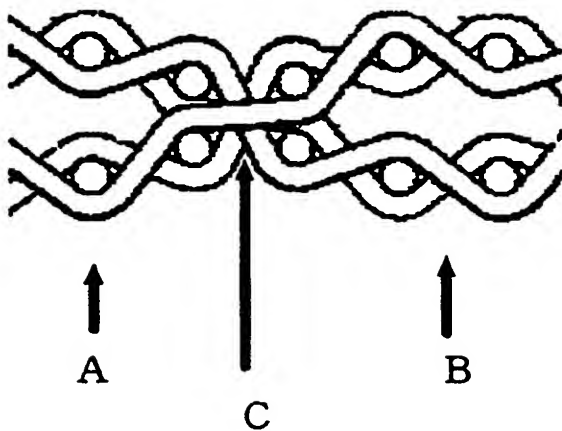
(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/042128 A1

- (51) International Patent Classification⁷: **D03D 1/02** (KR). LEE, Sang-Mok [KR/KR]; 77, Doryang-dong, 730-020 Gumi-city, Gyeongsangbuk-do (KR).
- (21) International Application Number: PCT/KR2003/002370 (74) Agent: **YOU ME PATENT & LAW FIRM**; Teheran Bldg., 825-33, Yoksam-dong, Kangnam-ku, Seoul 135-080 (KR).
- (22) International Filing Date: 6 November 2003 (06.11.2003) (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: Korean
- (26) Publication Language: English
- (30) Priority Data:
10-2002-0068309 6 November 2002 (06.11.2002) KR
10-2003-0020417 1 April 2003 (01.04.2003) KR
- (71) Applicant (*for all designated States except US*): **KOLON IND. INC.** [KR/KR]; 1-23, Byeolyang-dong, 427-709 Kwacheon-city, Kyungki-do (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **KIM, Kwang-Oh** [KR/KR]; 106-1506 Daewoo apt., Gupyeong-dong, 730-755 Gumi-city, Gyeongsangbuk-do (KR). **PARK, Yang-Soo** [KR/KR]; 103-103 Hanbittown, 112 Doryang-dong, 730-020 Gumi-city, Gyeongsangbuk-do
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: INFLATABLE TWO-LAYER FABRICS



(57) Abstract: The present invention relates to an inflatable two-layer fabric, and provides an inflatable two-layer fabric comprising two separated fabric layers, woven at the same time using a weaving machine, and an attachment area attaching said two fabric layers. Since the inflatable fabric of the present invention requires no sewing, it can significantly reduce manufacturing costs. Particularly, since all fabric layers are formed of a plain weave, airbags having a variety of shapes can be manufactured using a jacquard weaving machine. Further, since it has superior weaving property and smoothness, it can be utilized for side curtain airbags and other shock-absorbing products.